Eastbourne Electric Car Club

Tamiya M-Chassis Rules

1. Chassis

1.1. The only permitted chassis allowed in the Tamiya M-Chassis class are, M-03, M-05, M-06 and M-07 (including R, S Spec and Pro versions).

1.2. Conversion kits that drastically change the chassis or build of the Tamiya M-Chassis kit are not permitted, the kit must be as per the Tamiya M-Chassis specifications apart from any allowed hop-ups (see section 6).

1.3. Kit supplied chassis braces can be removed.

1.4. The wheelbase must be within the minimum and maximum that the kit can be built without adding any aftermarket parts.

1.5. The track must be within the maximum that the kit can be built without adding any aftermarket parts.

1.6. The minimum race ready weight is 1250g with no maximum weight limits.

1.7. The chassis may not be modified to allow batteries larger than those designed for the kit to be used.

2. Transmission

2.1. Tamiya plastic gear sets must be used, either kit standard gears or the hardened version.

2.2. No high-speed gears sets, or gear sets that alter the gearing from standard may be used.

2.3. Differentials must be built as per kit instructions (see fig 1).

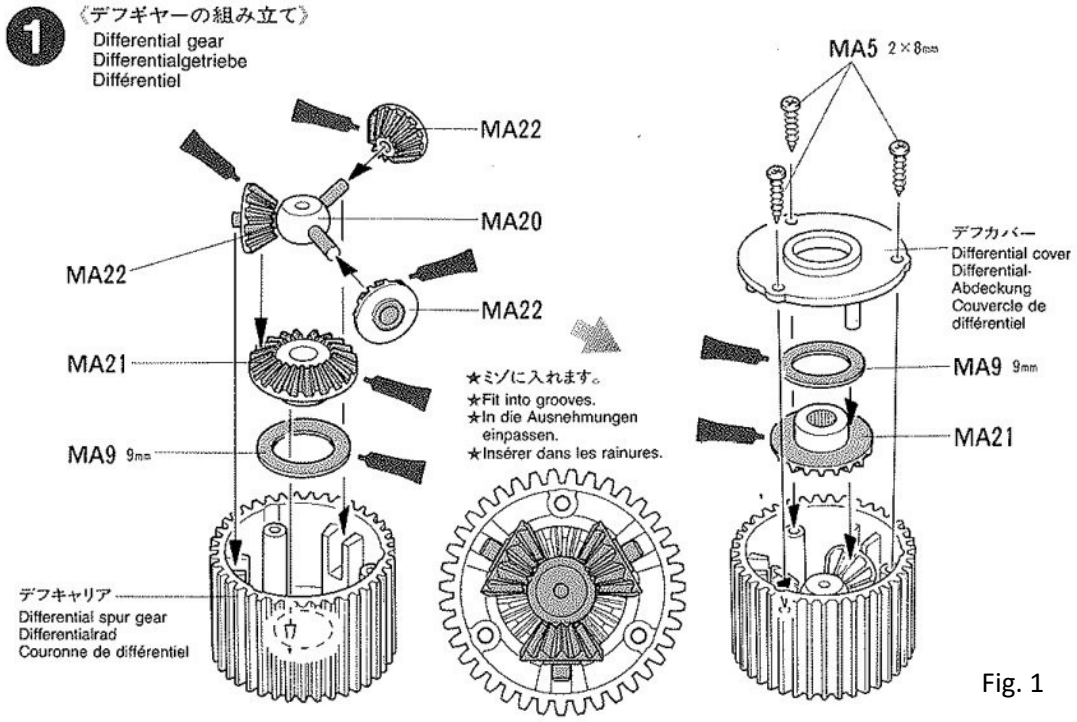


Fig. 1

2.4. Any grease or oil maybe used to replace the kit supplied grease. Substances having a consistency similar Blu-Tack and/or not being sold as diff grease or oil may not be used.

2.5. The differential must not be locked up, when either front wheel is rotated by hand, the opposite wheel must rotate in the opposite direction. The use of additional shims to add resistance to the diff action is strictly forbidden.

2.6. Ball differentials, spools and “solid axles” are specifically not allowed.

2.7. Any commercially available M-Chassis universal driveshaft may be used in replacement of the standard dog bone.

2.8. A maximum 20 tooth pinion may be used.

3. Electronics

3.1. Speed Control (ESC)

3.1.1. Only the kit supplied Tamiya 45029 ESC TEU-101BK, Tamiya 45041 ESC TEU-104BK or MTroniks/EECC Viper speed controls may be used.

3.1.2. Three step mechanical speed controllers are not allowed.

3.1.3. Configuration of wires must be as supplied, although wires may be cut to length, or extended if necessary.

3.1.4. Battery connector may be changed for different connectors (i.e. Deans Ultra, Power poles etc.).

3.1.5. Bullet motor connectors may be removed to allow direct soldering to motors or may be changed for different connectors (i.e. Deans Ultra, Power poles etc.).

3.1.6. The fitting of a power cap is not allowed.

3.2. Motor

3.2.1. Only the Tamiya 53086 RS540 Sport Tuned, Tamiya 53689 540-J Motor, Muchmore Clubman or HPI Saturn 20t motors may be used.

3.2.2. The motors must remain un-tampered, however cleaning of the motor is allowed. This includes the use of cleaning fluids, cotton buds and fibre comm sticks. Running in/comm drops and lubricants are permitted.

3.2.3. Anything other than this is not allowed and may result in disqualification from the event.

3.2.4. Water dipping of motors is also not permitted.

3.2.5. Heatsinks and/or cooling fans are permitted but are restricted to those designed with the intent of use on Tamiya M-Chassis kits. Only one of each item maybe used, not multiples of the same item.

3.2.6. Extra capacitors, power caps and/or schottky diodes may not be fitted to the motor.

3.2.7. The use of any form of commutator lathe is strictly forbidden.

3.3. Batteries

3.3.1. 7.2v Nicad or, Nimh batteries are permitted.

3.3.2. 7.4v Hardcase Lipo batteries are permitted with a maximum capacity of 5000mah and maximum UK rrp of £50. Saddle Pack are specifically not allowed.

3.3.3. Charging of Lipo batteries in particular must be carried out using a lipo battery charger using lipo mode with the battery in a lipo safety charging pouch.

3.4. Radio/Transmitter

3.4.1. 27mhz, 40mhz and 2.4ghz are the only permitted systems.

4. Bodyshells

4.1. Only bodyshells that appear in Appendix A – M-Chassis Body List may be used as supplied.

4.2. Only wings supplied with the bodyshell are permitted for use on the bodyshell, no additional wings are allowed.

4.3. The wheel arches of the body must cover the width of the tyres, at their tops, when the car is on the ground and ready to run.

4.4. No additional wheel arch extensions are allowed.

4.5. No cut-outs are allowed in the body except for body posts, aerial and transponder mounting.

4.6. The body shell should be trimmed to the manufacturer's trim line. "Cut-out" rear body panels are not allowed.

5. Wheels & Tyres

5.1. Any commercially available rubber slick or treaded tyre designed for use with M-Chassis may be used.

5.2. Any commercially available wheel designed for use with M-Chassis may be used with a diameter of 42mm. The specifically excludes the "inch up" type wheel.

5.3. With the exception of applying "Super Glue", tyres must not be modified in anyway. This includes belting and rounding of the edges of the tread.

5.4. Only 1 insert per tyre is allowed.

5.5. Inserts cannot be modified in anyway.

5.6. Additive may be used with the exception of any additive containing wintergreen.

5.7. Foam tyres are not allowed.

5. Hop-Ups

5.2. Any commercially available hop-up intended for use with the M-Chassis series of kits and falling into the following categories are permitted.

5.2.1. Dampers

5.2.2. Wheel Hex Adapters

5.2.3. Motor Heatsink and Fans

5.2.4. Universal Drive Shafts

5.2.5. Rear Toe-in Uprights

5.2.6. Front Uprights

5.2.7. Servo Mounts

5.2.8. Upper Shock Mounts

5.2.9. Chassis Braces

5.2.10. Suspension Arms

5.3. Any pinions of the same pitch, sizes 16t to 20t can be used.

5.4. Non Tamiya hardware parts including screws, ball joints and turnbuckles may be used.

5.5. Non Tamiya or other Tamiya hop-up bearings of the same size can be used in place of metal or plastic bushes. Bearing shields may not be removed.

5.6. No alloy or carbon fibre parts can be used except for those listed in the categories above (see clause 6.1).

5.7. Any shims, spacers and O rings can be used for the removal of play in moving parts except within the differential (see section 2.3).

5.8. Parts that vary only by colour are permitted as long as they do not contravene any other rule herein.

5.9. No other Hop up parts may be used, unless notification of change is made during the season, including but not limited to :-

5.9.1. Anti-Roll bar/stabiliser sets.

5.10. Tyre warmers may not be used.

6. <u>Brushless Class Exclusions</u>

The following rules specific only to the brushless m-chassis class.

6.2. Only the Hobbywing Brushless Combo B1 comprising of Hobbywing EZRUN-35A ESC and EZRUN 13T/3650-Motor or Hobbywing EZRUN-Combo-MAX10-3652SL-3300KV - HW38010203 comprising of Hobbywing EZRUN Max 10 60A ESC - HW30102602 ESC and Hobbywing EZRUN - 3652SL-3300KV-G2 Motor - HW30402600 motor may be used in the brushless class.

6.3. Any commercially available aftermarket hop-up differential unit designed specifically for the Tamiya M-Chassis kits may be used excluding the Yeah Racing 38T Gear Differential Set (TAMC-023) with or without optional 39T gear, but must still have a diff action as 2.5 above. Locked diffs are specifically not allowed.

6.4. If a race meeting is deemed wet by the race director, brushed equipment may be used in the brushless class.

Latest changes have been made in red

Appendix A – M-Chassis Body List

Tamiya M03/M05/M06 Shells

			
Fiat 500 (210mm)	Rover Mini Cooper #84186 (210mm)	Suzuki Swift Super 1600 #51236 (225mm)	Mini Cooper S 2006 (239mm)
			
BMW New Mini Cooper (239mm)	Datsun 280ZX #92214 (210mm)	Renault 5 Turbo (Ra) (210mm)	Volkswagon Golf (210mm)
			
Alpine A110 (Ra) (210mm)	Fiat Abarth 1000 (210mm)	Mini Cooper (210mm)	Mini Cooper ’94 Monte Carlo (210mm)
			
Honda S800 (210mm)	Mazda MX-5 #51583 (225mm)	Suzuki Swift #51545 (225mm)	Mini Cooper Racing (210mm)
			
Suzuki Swift Super (Ra) (225mm)	Abarth 500 Assetto #84127 (225mm)	Mazda 2 #51591 (239mm)	Honda Ballade/CR-X #51467 (225mm)
			
Alfa Romeo Mito #51404 (239mm)	Mini JCW Coupe #84364 (239mm)	Nissan Silvia S15 #51478 (210mm)	Renault Apline A110 ’71 (210mm)
			
Alfa Romeo Giulia (225mm)	Volkswagon Beetle #11825147 (239mm)	Mazda RX7 (239mm)	Nissan Silvia S13 #51496 (239mm)

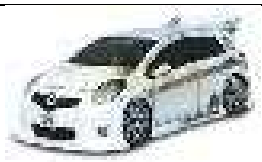
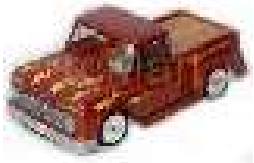
Titan Blitz M-Chassis Shells

			
C30 #60903 (210mm)	GTi #60904 (225mm)	Jazz #60906 (225mm)	RS1 #60905 (225mm)
			
Delta #60912 (225mm)			

Spice M-Chassis Shells

	
Toyota Starlet EP91 #SPA164 (210mm)	Suzuki Auto Works #SPA162 (210mm)

Colt M-Chassis Shells

			
Beetle #M1105 (210mm)	A-Class #M1107 (210mm)	Abarth 500 #M2325 (210mm)	Mini Cooper #M1108 (210mm)
			
March #M2305 (210mm)	Fiat 500 #M2308 (210mm)	Swift #M2309 (210mm)	Yaris #M2313 (210mm)
			
Pickup #M2316 (210mm)	Pickup #M2318 (210mm)	Fabia WRC #M2323 (210mm)	BB #M2319 (210mm)

ABC Hobby Tamiya M-Chassis Shells

	
Nissan March #66306 (210mm)	Honda Jazz #66040 (210mm)

Montech Tamiya M-Chassis Shells

			
Turbo Spidi #MT009004 (210mm)	595 Sport #MT008001 (210mm)	Five #MT009001 (210mm)	Turbo 5 #MT008002 (210mm)

Matrixline Tamiya M-Chassis Shells

			
Mini #PC201029 (210mm)	Suzuki Swift #PC201027 (225mm)	Fiat 500 #PC201028 (225mm)	Mini Cooper #PC201030 (239mm)

HPI Tamiya M-Chassis Shells


Honda Civic #7216 (225mm)

Spec-R M-Chassis Shells


CV-R #SPR007-CVR (210mm)

Protoform M-Chassis Shells


Europa #1567-25 (210mm & 225mm)

Arion M-Chassis Shells

			
GLF GTI #AR02-0002 (210mm)	Herb-GT #AR02-0003 (210mm)	S1-ROC #AR02-0005 (225mm)	SEERZEE #AR02-0006 (225mm)
			
T-Star #AR02-0007 (225mm)			

Rcon M-Chassis Shells

			
Club 1275GT #CLUB 1275GT (210mm)	Club 1275EGT #RCB-M007 (225mm)	R4WRC #RCB-M009 (208mm)	Didymos R30 #RCB-M003 (210-225mm)
			
Didymos 190R #RCB-M002 (210-225mm)	RS200 #RCB-M010 (225mm)		

Bittydesign M-Chassis Shells



HC-M
BDFWD-HCM (210mm & 225mm)